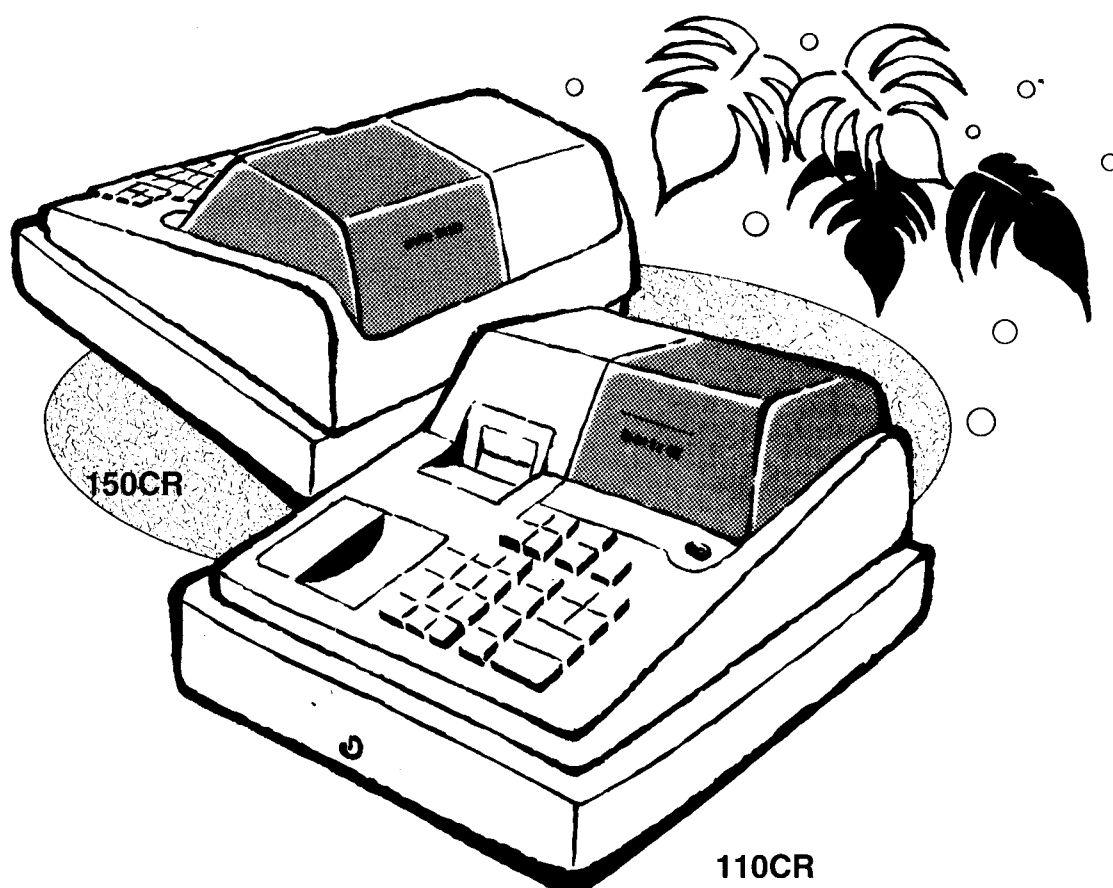


110CR

150CR

Electronic Cash Register



User's Manual

START-UP is QUICK and EASY!
Simple to use!

4 departments
Automatic Tax Calculations
Calculator function

CASIO®

EU
DI
UK

Introduction

Thank you very much for purchasing this CASIO electronic cash register.
START-UP is QUICK and EASY!

Part-1 of this User's Manual can help you make a quick start.

Once you have mastered the QUICK START operations, you will undoubtedly want to expand your use of this machine by studying other sections of Part-2.

Original Carton/Package

If for any reason, this product is to be returned to the store where purchased, it must be packed in the original carton/package.

Location

Locate the Cash register on a flat, stable surface, away from heaters or areas exposed to direct sunlight, humidity or dust.

Power Supply

Your cash register is designed to operate on standard household current (120V, 220V or 240V: 50/60Hz). Do not overload the outlet by plugging in too many appliances.

Cleaning

Clean the cash register exterior with a soft cloth which has been moistened with a solution of a mild neutral detergent and water, and wrung out.

Be sure that the cloth is thoroughly wrung out to avoid damage to the printer.

Never use paint thinner, benzene, or other volatile solvents.

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Part-1 QUICK START OPERATION

5

(You can operate this ECR on a basic level by reading the following sections)

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3. Loading Paper	6
4. Basic Programming for QUICK START – TIME/DATE	7
5. Basic Operation after Basic Programming	8
6. Daily Management Report	11

Part-2 CONVENIENT OPERATION

13

(Please keep these sections to expand your use.)

1. Various Programming	13
2. Various Operations	22

Part-3 CALCULATOR FUNCTION.....

26

1. Calculator Mode	26
--------------------------	----

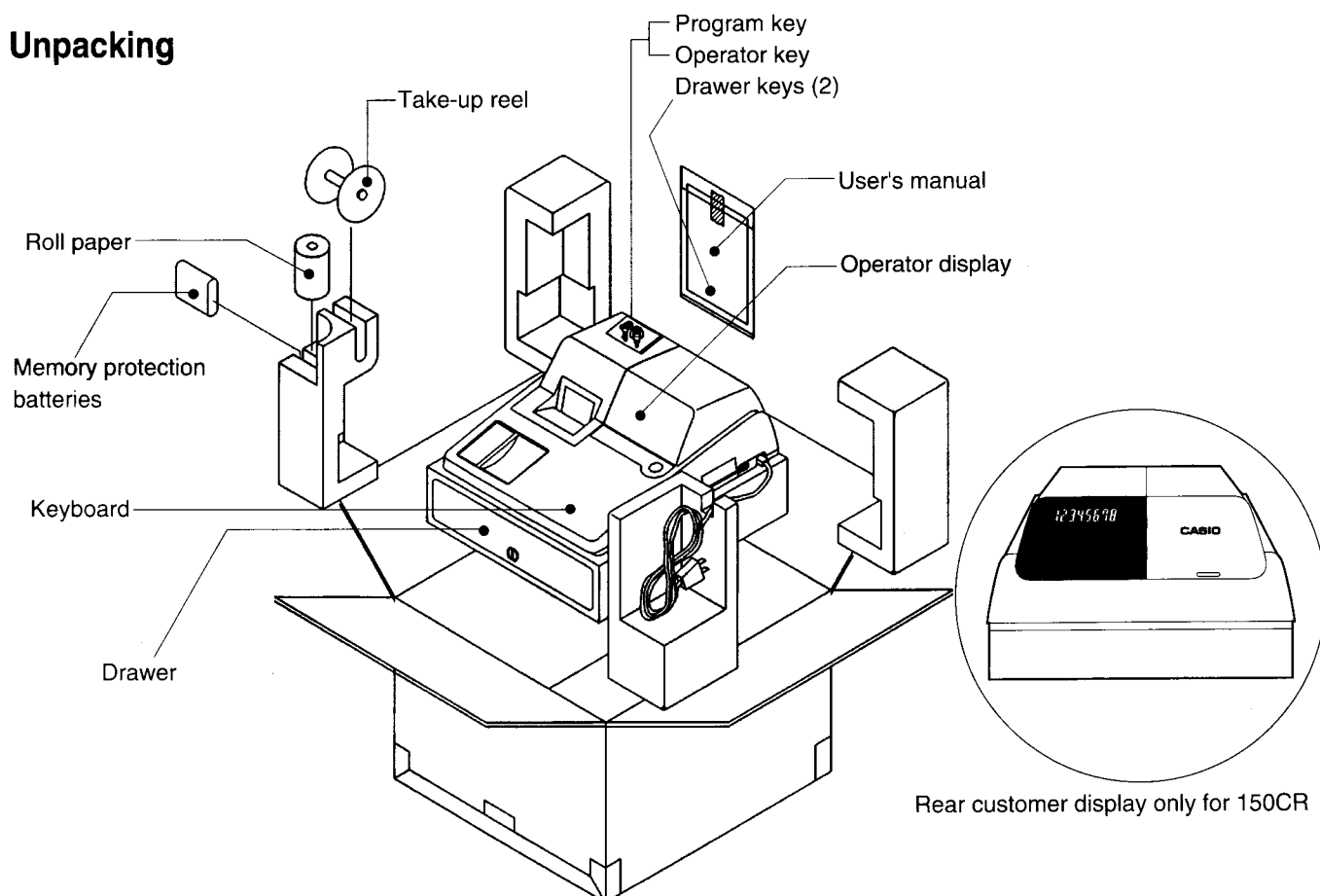
Part-4 USEFUL INFORMATION

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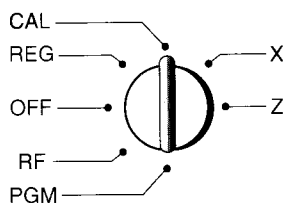
1. Troubleshooting	28
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Before you start

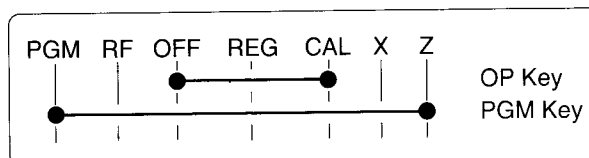
Unpacking



Getting to know your cash register



The position of the Mode Switch controls the type of operations you can perform on the cash register. The PROGRAM Key (marked PGM) that comes with the cash register can be used to select any Mode Switch setting, while the OPERATOR Key (marked OP) can be used to select OFF, REG or CAL only.



Note:

An error is generated (E01 displayed) whenever the position of the Mode Switch is changed during registration or programming.

OFF

In this position, the power of the cash register is off.

REG (Register)

This is the position used for registration of normal transactions.

RF (Refund)

This is the position used for registration of refunds.

CAL (Calculator)

This is the position used for calculator mode.

PGM (Programming)

This is the position used to program the cash register to suit the needs of your store.

X (Read)

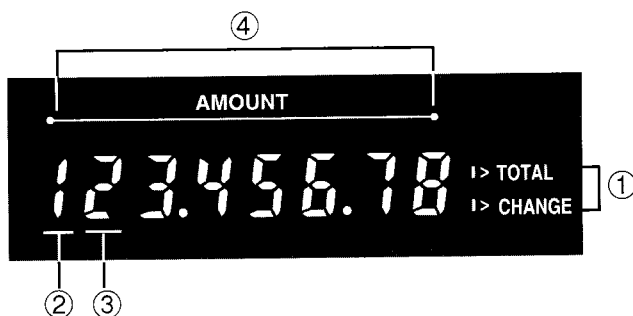
This is the position used to produce reports of daily sales totals without clearing the totals.

Z (Reset)

This is the position used to produce reports of daily sales totals. This setting clears the totals.

Displays

Operator Display



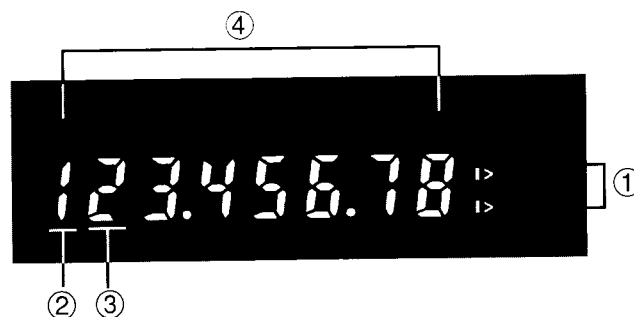
① Total/Change Display

The total (upper segment) or change (lower segment) sign appears when a subtotal, total or change is obtained.

② Department Number Display

Anytime you press a department key to register a unit price, the corresponding department number appears here.

Rear Customer Display (only for 150CR)



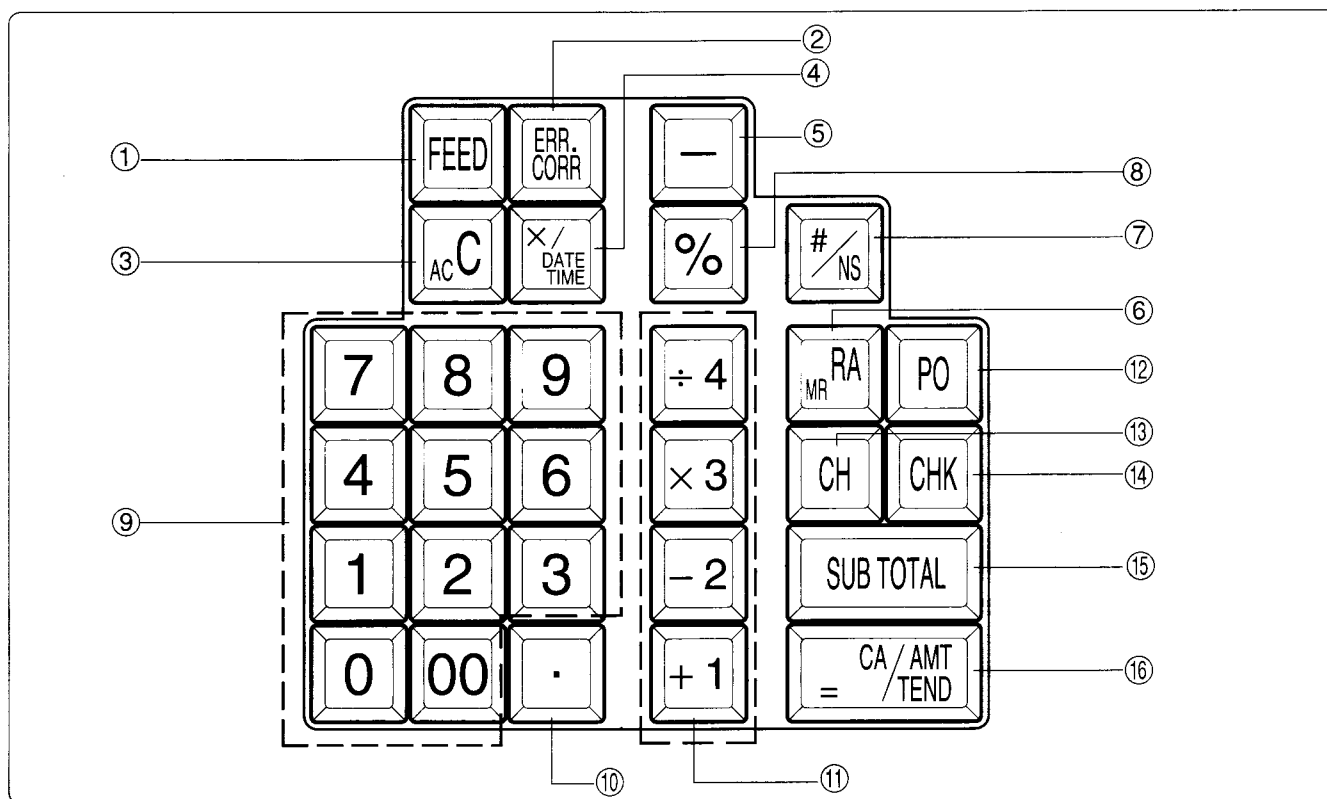
③ Number of Repeat Display

Anytime you perform "repeat registration" (page 8), the number of repeats appears here. Note that only one digit is displayed for the number of repeats.

④ Numeric Display

Entered values (unit prices or quantities) and calculated values (subtotals, totals or change amount due) are displayed here. The capacity of the display is 8 digits. This part of the display can be used to show the current time or date between registrations (page 24).

Keyboard



Certain keys have two functions; one for register mode and one for calculator mode.

In this manual, we will refer to specific keys as noted below to make the operations as easy to understand as possible:

Register Mode

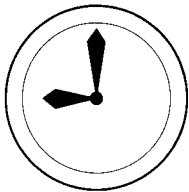
- ① **FEED** Feed Key
- ② **ERR CORR** Error Correction Key
- ③ **AC C** Clear Key
- ④ **X / DATE TIME** Multiplication/Date Time Key
- ⑤ **-** Minus key
- ⑥ **RA / MR** Received On Account Key
- ⑦ **# / NS** Reference Number/No Sale Key
- ⑧ **%** Percent Key
- ⑨ **0, 1 ~ 9, 00** Numeric Keys and 2-zero key
- ⑩ **.** Decimal key
- ⑪ **+ 1 - 2 x 3 ÷ 4** Department Keys
- ⑫ **PO** Paid Out Key
- ⑬ **CH** Charge Key

- ⑭ **CHK** Check Key
- ⑮ **SUB TOTAL** Subtotal Key
- ⑯ **= CA / AMT TEND** Cash Amount Tendered Key

Calculator Mode

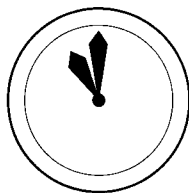
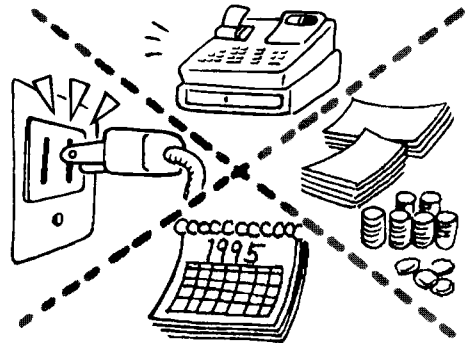
- ③ **AC c** AC Key
- ⑥ **RA / MR** Memory Recall key
- ⑧ **%** Percent Key
- ⑨ **0, 1 ~ 9, 00** Numeric Keys and 2-zero key
- ⑩ **.** Decimal key
- ⑪ **+ 1 - 2 x 3 ÷ 4** Arithmetic Operation Keys
- ⑯ **= CA / AMT TEND** Equal Key

Daily Job Flow



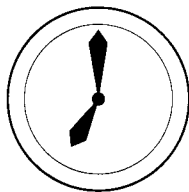
Before Opening The Store

1. Plugged in?
2. Enough Roll Paper?
3. Date and Time is correct?
4. Enough small change in the drawer?



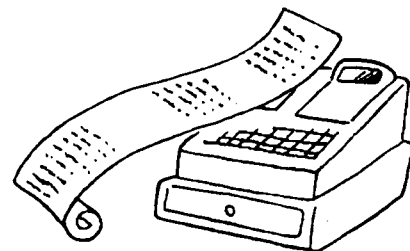
While The Store Is Open

1. Registrations.
2. Issuing latest daily sales total if needed.
(Generating report by Mode Switch to X position.)



After Closing The Store

1. Issuing Daily Sales Total.
(Resetting report by Mode Switch to Z position.)
2. Picking up money in the drawer.
3. Turn the Mode Switch to OFF.





QUICK START OPERATION

Part-1

1. Initialization and Loading Memory Protection Battery

Important

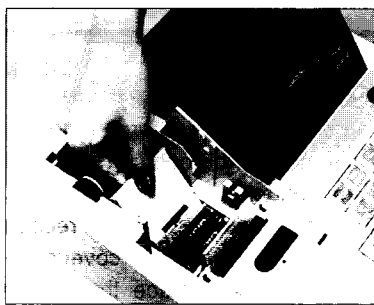
You must initialize the Cash register and install the memory protection batteries before you can program the cash register.

► To initialize the cash register

1. Set the Mode Switch to OFF.
2. Plug the power cord of the cash register into an AC outlet.
3. Load the memory protection batteries.
4. Set the Mode Switch to REG.

► To load the memory protection batteries

1. Remove the printer cover.
2. Press down on the oval just behind the printer paper inlet, and slide the battery compartment cover toward the back of the cash register (Figure 1).
3. Load 3 new UM-3, R6P (SUM-3) or LR6 (AM-3) type batteries into the compartment. Be sure that the plus (+) and minus (-) ends of each battery are facing in the directions indicated by the illustrations inside the battery compartment.
4. Slide the memory protection battery compartment cover back into place.
5. Replace the printer paper and printer cover.



(Figure 1)

REPLACE MEMORY PROTECTION BATTERIES AT LEAST ONCE EVERY YEAR.

2. To Select the Date Format and Monetary Mode

You can select the date format and Monetary mode after initialization depending on the requirements in your area.

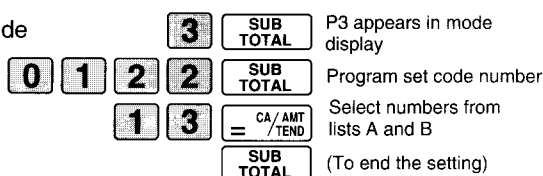
Default date format is Date/Month/Year.

Default Monetary Mode is Add 2.

Example:

Change the date format to Month/Date/Year, and change Monetary mode to Add 3.

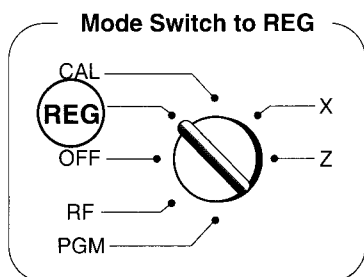
1. Set the Mode Switch to PGM.
2. Press the following keys.



Date Format Selections	
Year/Month/Date	0
Month/Date/Year	1
Date/Month/Year	2

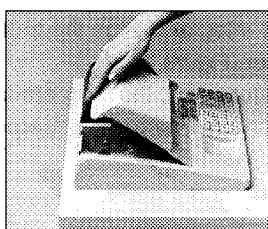
Monetary Mode Selections	
Add 0 (0.)	0
Add 1 (0.0)	1
Add 2 (0.00)	2
Add 3 (0.000)	3

3. Loading Paper Roll And Replacing The Printer's Ink Roll

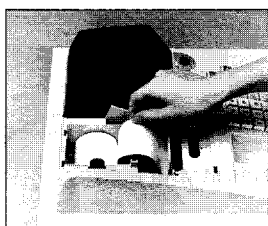


1. To load journal paper

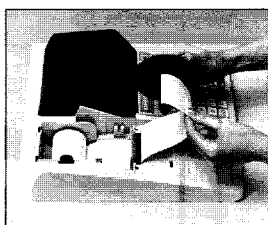
- ① Remove the printer cover by lifting up the back.



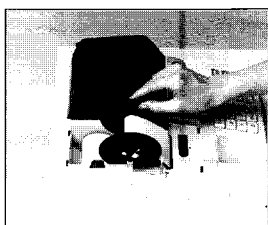
- ② Put a roll of journal paper into the holder.
- ③ Cut the leading end of the roll paper with scissors and insert the paper into the inlet.



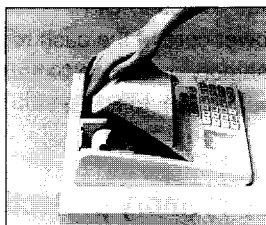
- ④ Press the **FEED** key until 20 or 30 cm of paper is fed from the printer.
- ⑤ Roll the paper onto the take-up reel a few turns.



- ⑥ Set the left plate of the take-up reel and place the reel into the register.

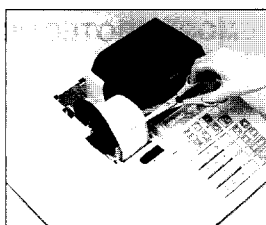


- ⑦ Press the **FEED** key to take up any slack in the paper.
- ⑧ Replace the printer cover by placing the cover's front tab into the register's groove.

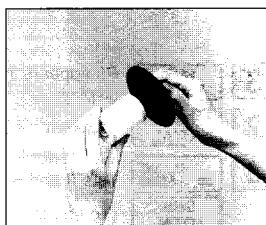


2. To remove journal paper

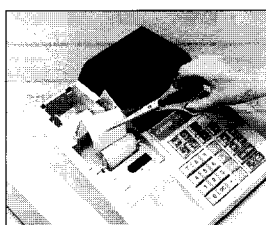
- ① Remove the printer cover following the instructions above.
- ② Press the **FEED** key until approximately 20cm of the paper is fed from the printer.
- ③ Cut off the roll paper.



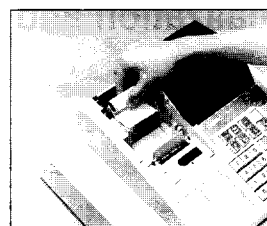
- ④ Remove the take-up reel from the printer and take off the left plate of the reel.
- ⑤ Remove the journal paper from the take-up reel.



- ⑥ Cut off the paper left in the printer and press the **FEED** key until the remaining paper is fed out from the printer.



- ⑦ Remove the core of the paper.

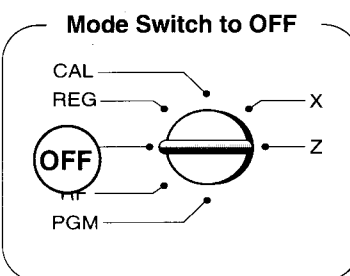


- ⑧ Load new paper following the instructions above, and replace the printer cover.

Default printer setting is for Journal.
To print receipts, please refer to 1-7-3 on page 18 to switch the printer for Receipt or Journal.

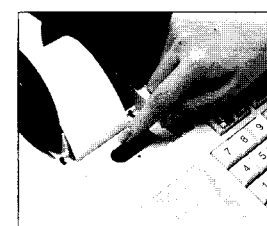
► To load receipt paper

- ① To use the printer to print receipts, follow steps 1 through 4 of "To load journal paper".
- ② Pass the leading end of the receipt paper through the printer cover's paper outlet and replace the printer cover.
- ③ Tear off any excess paper.



► To replace the ink roll

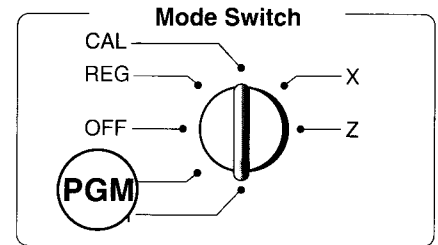
- ① Remove the printer cover.
- ② Lift up the tab on the ink roll marked "PULL UP".



- ③ Install a new Ink Roll and press it down firmly but gently until it snaps into place.
- ④ Replace the printer cover onto the cash register.
- ⑤ Press the **#/NS** key to check for correct operation.

Options: Roll paper – P-5860
Ink Roll – IR-40

4. Basic Programming for QUICK START

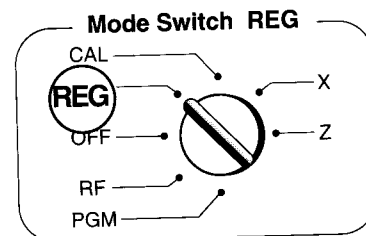


Procedure	Purpose
1. Insert the PROGRAM key (marked "PGM") and rotate to PGM position.	Programming
<p>2. Press the following keys to set the current time.</p> <p>Example: 13:18 PM = 1318</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>1</div> <div>3</div> <div>1</div> <div>8</div> <div>Time</div> </div> <div style="margin: 0 10px;"> <div>1</div> <div>8</div> <div>Minutes</div> </div> <div style="text-align: center;"> <div>1</div> <div>SUB TOTAL</div> <div>X/DATE TIME</div> <div>AC C</div> </div> </div> <p>P appears in mode display (to end the time setting)</p> <ul style="list-style-type: none"> • Enter 4 digits • 24-hour time format 	Setting the current time
<p>3. Press the following keys to set the current date.</p> <p>Example: January 8, 1995 = 950108</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>9</div> <div>5</div> <div>0</div> <div>1</div> <div>0</div> <div>8</div> <div>Year</div> </div> <div style="margin: 0 10px;"> <div>Month</div> </div> <div style="text-align: center;"> <div>1</div> <div>SUB TOTAL</div> <div>X/DATE TIME</div> <div>AC C</div> </div> </div> <p>P appears in mode display (to end the date setting)</p> <ul style="list-style-type: none"> • Enter 6 digits • Enter last 2 digits for year set. (1995 → 95) 	Setting the current date
<p>4. You can set only one tax calculation system – either an add-on or an add-in depending on the laws in your area. Press the following keys to set the tax rate.</p> <p>Example: Set tax rate 1 as 5.25% and tax rate 2 as 10%.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>3</div> <div>SUB TOTAL</div> </div> <div style="margin: 0 10px;"> <div>P3 appears in mode display</div> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>0</div> <div>1</div> <div>2</div> <div>5</div> <div>SUB TOTAL</div> </div> <div style="margin: 0 10px;"> <div>Program set code No. for tax rate 1</div> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>5</div> <div>.</div> <div>2</div> <div>5</div> <div>=</div> <div>CA/AMT TEND</div> </div> <div style="margin: 0 10px;"> <div>5.25% tax rate</div> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>5</div> <div>0</div> <div>0</div> <div>3</div> <div>=</div> <div>CA/AMT TEND</div> </div> <div style="margin: 0 10px;"> <div>50 for Round off and 03 for VAT (Value Added Tax) – Add In</div> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>0</div> <div>2</div> <div>2</div> <div>5</div> <div>SUB TOTAL</div> </div> <div style="margin: 0 10px;"> <div>Program set code No. for tax rate 2</div> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>1</div> <div>0</div> <div>=</div> <div>CA/AMT TEND</div> </div> <div style="margin: 0 10px;"> <div>10% tax rate</div> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>5</div> <div>0</div> <div>0</div> <div>3</div> <div>=</div> <div>CA/AMT TEND</div> </div> <div style="margin: 0 10px;"> <div>50 for Round off and 03 for VAT (Value Added Tax) – Add In</div> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>SUB TOTAL</div> </div> <div style="margin: 0 10px;"> <div>(to end the setting)</div> </div> </div> <ul style="list-style-type: none"> • See page 19 to specify the tax system and rounding for details. 	Setting the Tax rate
<p>5. Press the following keys to preset tax status of departments.</p> <p>Tax status for the Departments are fixed as Non-taxable.</p> <p>Example: Set Departments 1 and 2 as taxable status 1.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>1</div> <div>SUB TOTAL</div> </div> <div style="margin: 0 10px;"> <div>P appears in mode display</div> </div> </div> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <div>RA/MR</div> <div>+ 1</div> <div>- 2</div> <div>SUB TOTAL</div> </div> </div> <ul style="list-style-type: none"> • See page 13 to change the fixed tax status. 	Setting the status of Departments

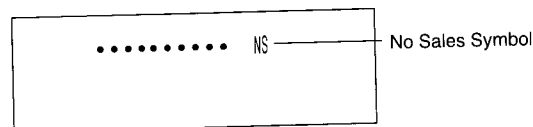
5. Basic Operation after Basic Programming

Note:

Whenever an error is generated (E01 displayed), the input figures reset to 0.



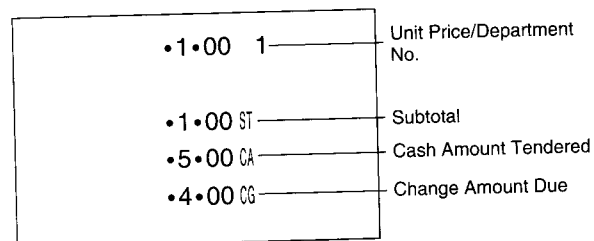
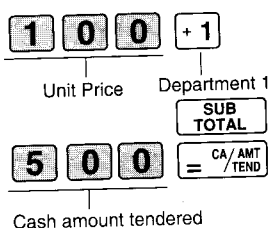
5-1 Open the drawer without a sale



5-2 Basic operation

Example

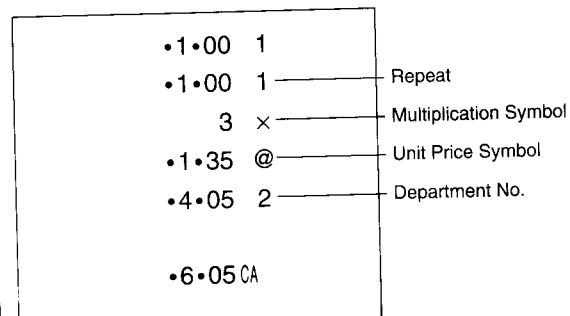
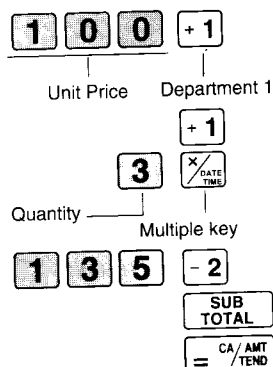
Unit Price	\$1.00
Quantity	1
Dept.	1
Cash Amount tendered	\$5.00



5-3 Multiple registration of the same items

Example

Unit Price	\$1.00	\$1.35
Quantity	2	3
Dept.	1	2

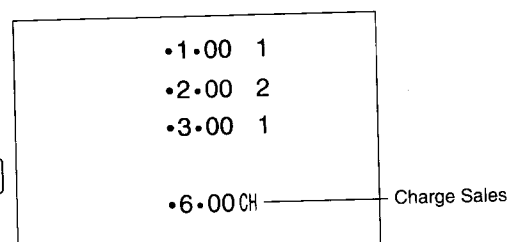
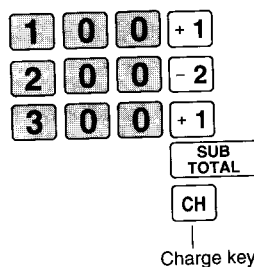


Note that repeat registration can be used with unit prices up to 6 digits long.

5-4 Charge sales

Example

Unit Price	\$1.00	\$2.00	\$3.00
Quantity	1	1	1
Dept.	1	2	1



You cannot perform the amount tendered operation using the CH key.

5-5 Split cash/ charge sales

Example

Unit Price	\$2.00	\$3.00	\$4.00
Quantity	1	1	1
Dept.	1	2	1
Cash Amount tendered	\$5.00		

Operation

Printout

2 0 0 + 1
 3 0 0 - 2
 4 0 0 + 1
 SUB TOTAL
 5 0 0 = CA/AMT TEND
 CH

•2.00 1
 •3.00 2
 •4.00 1

•9.00 ST
 •5.00 CA ——— Cash Amount Tendered
 •4.00 CH ——— Charge Sales

5-6 Corrections

Corrections can be made while you are registering the item (before you press a department key), or after it has already been registered into the memory (by pressing a department key).

5-6-1 Before you press a department key

AC C key clears the last item entered.

Example

- Entered 400 for unit price by mistake instead of 100.

4 0 0 AC C
 Wrong entry Clears the last item entered.
 1 0 0 + 1
 Correct entry Registered Department 1

Printout

•1.00 1

- Entered unit price first instead of quantity and then pressed **X/DATE TIME**.

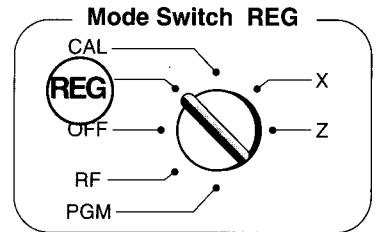
2 0 0 X/DATE TIME
 Unit price Multiplication
 AC C
 Clears the last item entered.
 5 X/DATE TIME
 Quantity Multiplication
 2 0 0 - 2
 Unit price Registered Department 2

5 ×
 •2.00 @
 •10.00 2

- Entered 150 for unit price by mistake instead of 105.

1 0 X/DATE TIME
 Quantity Multiplication
 1 5 0 AC C
 Wrong entry Clears the last item entered.
 1 0 X/DATE TIME
 Quantity
 1 0 5 × 3
 Correct entry Registered Department 3

10 ×
 •1.05 @
 •10.50 3



Operation

Printout

5-6-2 After you pressed a department key

ERR
CORR

key cancels the last registered item.

Example

- Entered unit price 550 by mistake instead of 505 and pressed a department key.

5 5 0 + 1

Wrong entry

ERR
CORR

Cancels the last item registered.

5 0 5 + 1

Correct entry

Registered Department 1

•5•50 1
-5•50 VD
•5•05 1

- Entered unit price 220 by mistake instead of 230 and pressed a department key.

3 X
DATE
TIME

Quantity Multiplication

2 2 0 - 2

Wrong entry

ERR
CORR

Cancels the last item registered.

2 3 0 - 2

Correct entry

Registered Department 2

3 ×
•2•20 @
•6•60 2
-6•60 VD
3 ×
•2•30 @
•6•90 2

6. Daily Management Report

This section tells you the procedures to use to produce reports of the transaction data stored in the cash register's memory.

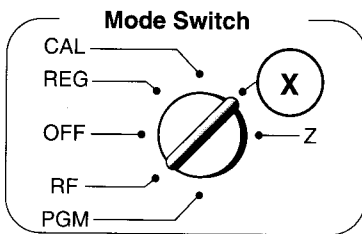
Important

Remember that when you issue a reset (Z) report, the data that is reported is cleared from the applicable totalizers. To view data without clearing totalizers, issue a read (X) report.

6-1 Financial Report

Operation

Printout



08-01-95	Date
12-35#0085	Time/Consecutive No.
X	Read Symbol
158 *	Gross Sales No. of Items
•16676•48 *	Gross Sales Amount
46 NT	Net Sales No. of Customers
•16675•99 NT	Net Sales Amount
•16518•99 CA #	Cash Total in Drawer
•92•00 CH #	Charge Total in Drawer
•70•00 * CK	Check Total in Drawer

6-2 General Control Read/Reset Report

Operation

Printout

6-2-1 Daily Read/Reset Report

Mode Switch to



(Read)



Mode Switch to



(Reset)



Z (Reset) report

08-01-95	Date
19-35#0086	Time/Consecutive No.
0001 Z	Non-resettable No. of Resets/RESET Symbol*1
48 1	No. of Items/Dept. No.
•166•94	Amount
61 2	
•1259•15	
44 3	
•15175•39	
5 4	
•75•00	
158 *	Gross Sales No. of Items
•16676•48 *	Gross Sales Amount

Part-1 QUICK START OPERATION

•0•50 —	Reduction Amount
•0•91% —	Premium/Discount Amount
•1182•64 TA —	Taxable Amount for Tax Rate 1
•62•07 TX —	Tax Amount for Tax Rate 1
•167•45 * TA —	Taxable Amount for Tax Rate 2
•16•75 TX 2 —	Tax Amount for Tax Rate 2
46 NT —	Net Sales No. of Customers
•16675•99 NT —	Net Sales Amount
47 CA —	Cash Sales Count
•16513•99 CA —	Cash Sales Amount
4 CH —	Charge Sales Count
•92•00 CH —	Charge Sales Amount
1 CK —	Check Sales Count
•70•00 CK —	Check Sales Amount
•15•00 RA —	Received On Account Amount
•10•00 PO —	Paid Out Amount
4 VD —	Error Correction Count
1 RF —	Refund MODE Count
•3•00 RF —	Refund MODE Amount
16 CA × —	No. of $\left[\frac{CA}{AMT} = \frac{7}{TEND} \right]$ key operation
1 NS —	No-sales Count
•16518•99 CA # —	Cash in Drawer
•92•00 CH # —	Charge in Drawer
•70•00 * CK —	Check in Drawer
000001 —	Non-resettable Grand Sales Total (printed only on RESET report)*2
6675•99 —	

X (Read) report is the same except *1 and *2.

6-2-2 Periodic Read/Reset Report

Operation

Printout

Mode Switch to

Z

or

X

1 0 = CA/AMT / TEND

08-01-95 —	Date
19-50#0087 —	Time/Consecutive No.
#10#.... × —	Read Symbol
77 * —	Gross Sales No. of Items
•1116•90 * —	Gross Sales Amount
11 NT —	Net Sales No. of Customers
•1116•90 NT —	Net Sales Amount



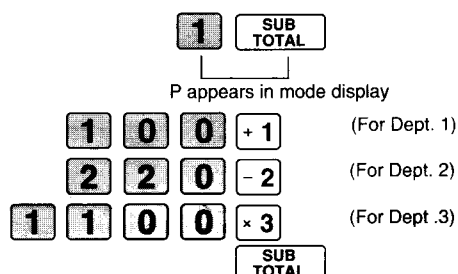
CONVENIENT OPERATION

1. Various Programming

1-1 Unit price for Departments

Example

Unit Price	\$1.00	\$2.20	\$11.00
Dept.	1	2	3

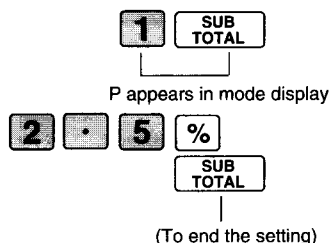


• Unit prices within the range of 0.01~9999.99.

1-2 Rate for percent key

Example

Discount Rate	2.5%
---------------	------



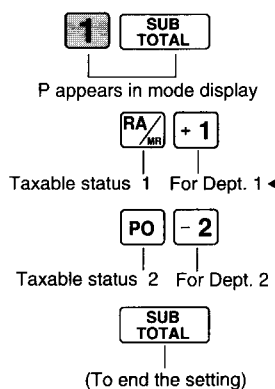
• The rate within the range of 00.01 to 99.99%.

1-3 To change tax status for Departments

Tax status for the Departments 1~4 are fixed as Non-Taxable status.

Example

Status	Taxable 1	Taxable 2
Depts.	1	2



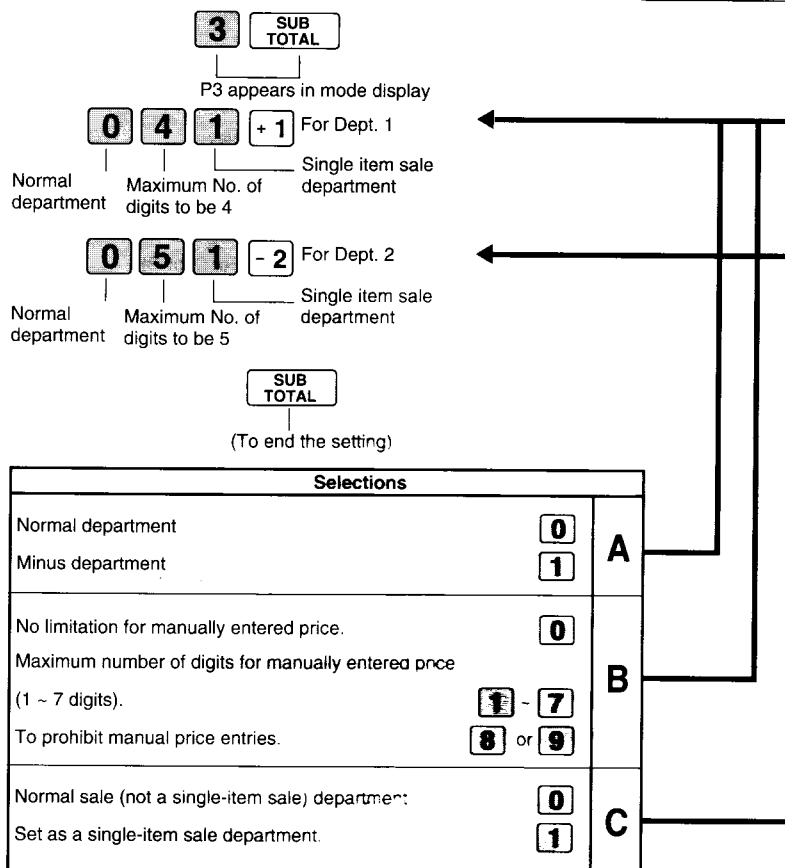
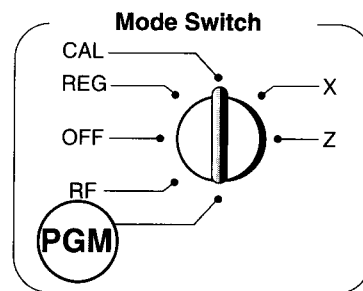
Selections	
Taxable status 1	RA
Taxable status 2	PO
Taxable status 1 and 2	RA
Non-taxable status	#

A

1-4 Status for Department

Example

Depts.	Selections		
	A	B	C
1	0	4	1
2	0	5	1



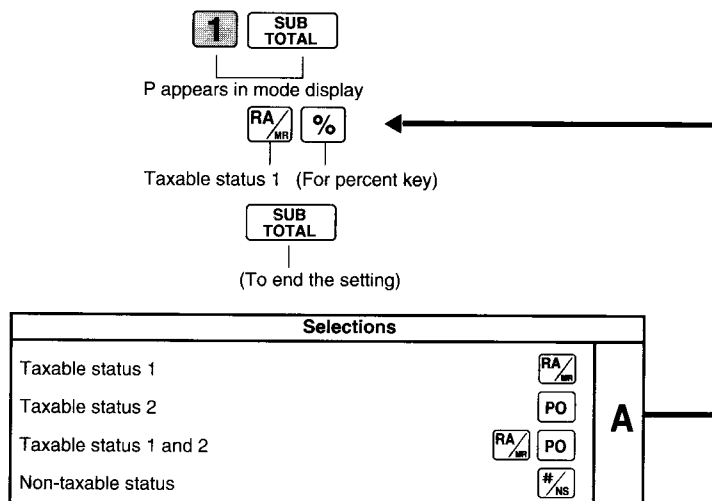
1-5 Status for percent key

1-5-1 To change taxable status for the percent key

Non-taxable status is fixed for the percent key.

Example

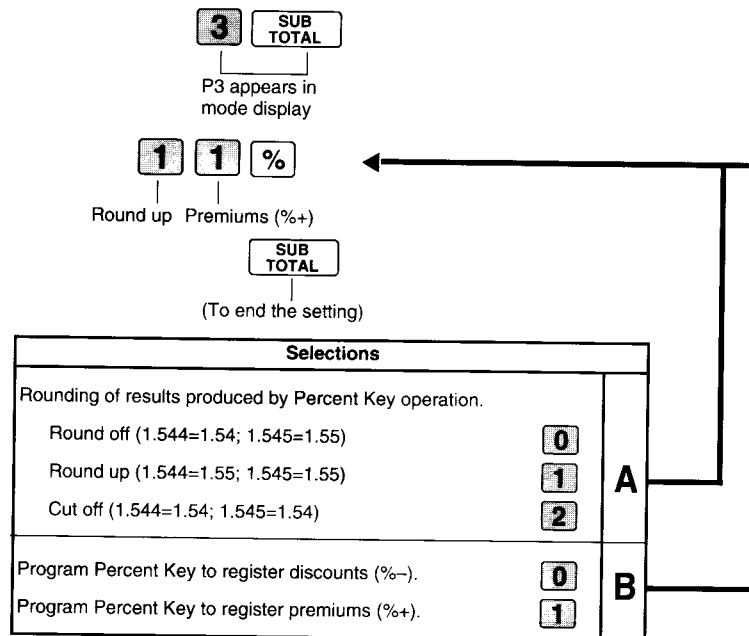
Change Percent key registration as a Taxable status 1.



1-5-2 Status for percent key

Example

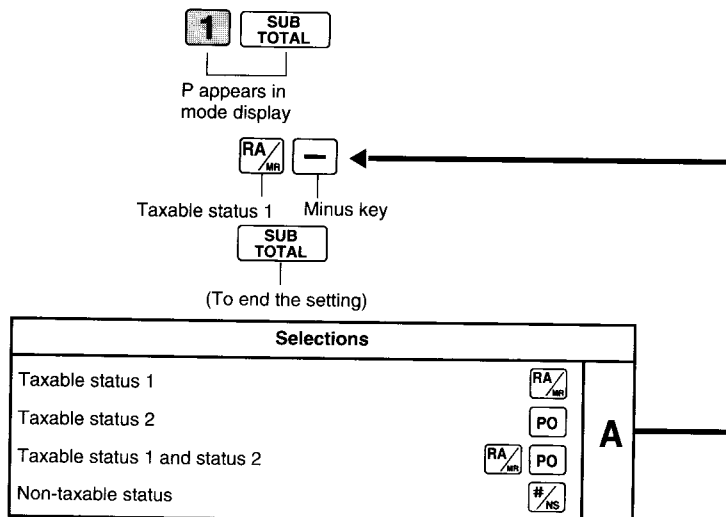
Round	Up
Percent	%+



1-6 Taxable Status for minus key

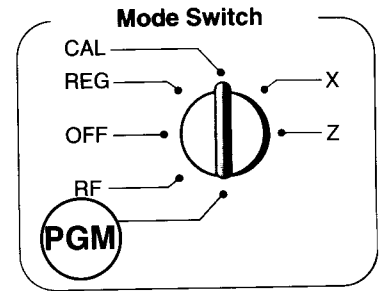
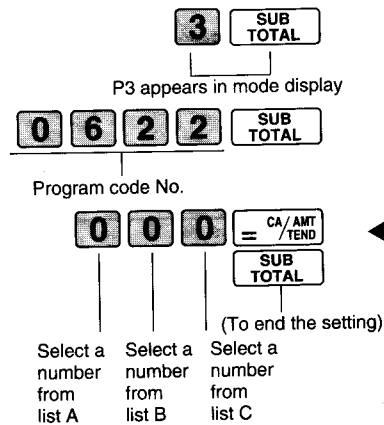
Example :

Change minus key registrations
Taxable status 1.



1-7 General features

1-7-1 To set general controls



Selections			
Maintain key buffer during receipt issue in REG mode.			
Reset the transaction number to zero whenever a General Control Reset Report is issued.			
Allow credit balance registration.			
No	Yes	No	0
		Yes	1
	No	No	2
		Yes	3
Yes	Yes	No	4
		Yes	5
	No	No	6
		Yes	7

A

Selections			
Limit the last 2 digits of cash amount tendered to 00, 25, 50 and 75 when Denmark rounding is specified for subtotal and total amount.			
Allow partial cash amount tendered.			
Allow partial check amount tendered.			
Yes	Yes	No	0
		Yes	1
	No	No	2
		Yes	3
No	Yes	No	4
		Yes	5
	No	No	6
		Yes	7

B

Selections	
Use the 00 key on a numeric keyboard.	0
Use the 00 key as a 000 key.	1

C

1-7-2 To set printing controls

3 SUB TOTAL

P3 appears in mode display

0 5 2 2 SUB TOTAL

Program code No.

0 0 0 0 = CA/AMT/TEND

Select a number from list A

Select a number from list B

Select a number from list C

(To end the setting)

Select a number from list D

SUB TOTAL

Selections			
Use the printer to print a journal.	0		A
Use the printer to print receipts.	1		

Selections			
Print zero-total item on the General Control Read/Reset Reports.	0		B
Do not print zero-total item on the General Control Read/Reset Reports.	1		

Selections				
Print RF switch mode refund count/amount on the General Control Read/Reset Reports.			C	
Print the grand sales total on the General Control Read/Reset Reports.				
Print the time on the receipt and journal.				
Yes	No	Yes		0
		No		1
	Yes	Yes		2
		No		3
No	No	Yes		4
		No		5
	Yes	Yes		6
		No		7

Selections				
Print the consecutive number on the receipt/journal.			D	
Print the subtotal on the receipt/journal when the Subtotal Key is pressed.				
Skip item print on journal.				
No	No	Yes		0
		No		1
	Yes	Yes		2
		No		3
Yes	No	Yes		4
		No		5
	Yes	Yes		6
		No		7

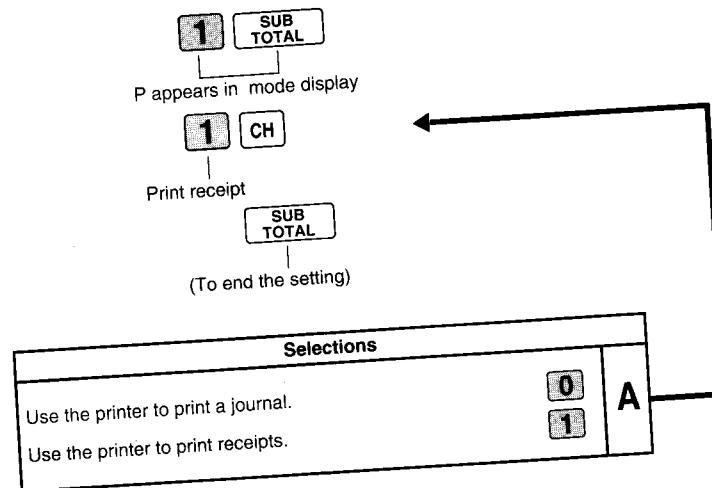
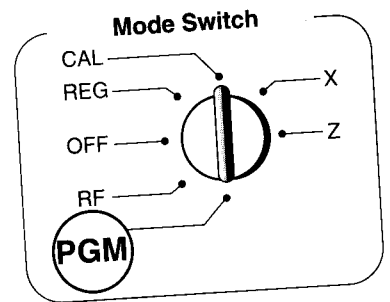
Part-2 CONVENIENT OPERATION

1-7-3 Printer switch for Receipt or Journal

The printer is fixed as journal after initialized operation.

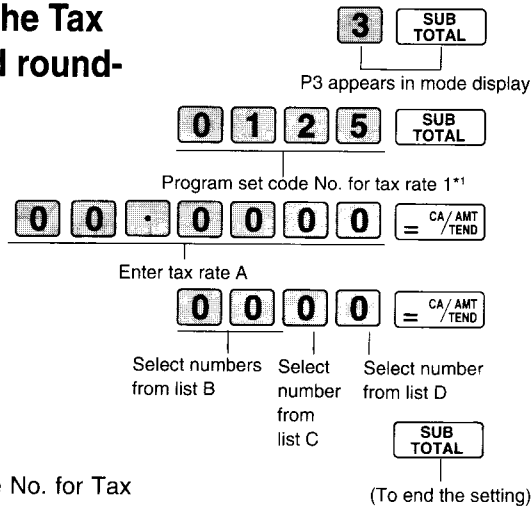
Example

To print a receipt



- Printer selection to print a journal or receipts can also be set on procedures 1-7-2 "To set printing controls".

1-8 Setting the Tax Rate and rounding



*1 Program set code No. for Tax rate 2 is 0 2 2 5.

Tax rate specifications	
The tax rate within the range of 0,0001 ~ 99,9999%.	A
Use key for decimal point.	

Normal rounding specifications	
Cut off to 2 decimal places. (1.544=1.54; 1.545=1.54)	0 0
Round off to 2 decimal places. (1.544=1.54; 1.545=1.55)	5 0
Round up to 2 decimal places. (1.544=1.55; 1.545=1.55)	9 0

• You can use either an add-on rate tax or an add-in rate tax (VAT), depending on the requirements in your area. You can specify only one tax rate.

• The normal rounding specification tells the cash register how to round tax amounts to the proper number of decimal places.

• The special rounding specification and Denmark rounding tell the cash register how to round off subtotals and totals so that their rightmost 2 digits are 00, 25, 50 and 75.

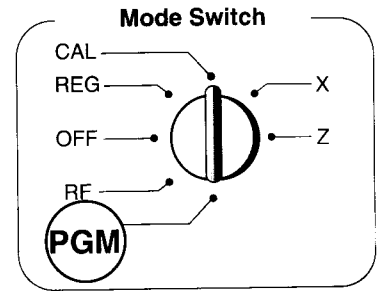
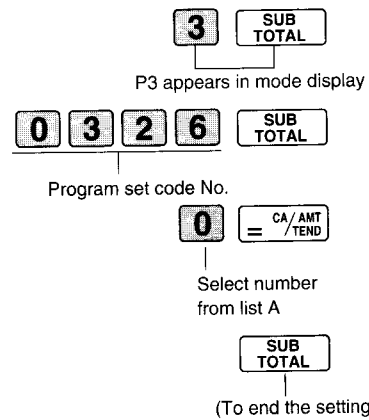
• Note that the rounding specification you program for your cash register depends on the tax laws of your country.

*2 B, C & D specifications can be omitted if not required.

Special rounding specifications for subtotal and total amounts	
No specifications	0
Special rounding 1 0 ~ 2 → 0; 3 ~ 7 → 5; 8 ~ 9 → 10 Examples: 1.21=1.20; 1.26=1.25; 1.28=1.30	1
Special rounding 2 0 ~ 4 → 0; 5 ~ 9 → 10 Examples: 1.123=1.120; 1.525=1.530	2
Denmark rounding 00 ~ 12 → 0; 13 ~ 37 → 25; 38 ~ 62 → 50; 63 ~ 87 → 75; 88 ~ 100 → 100 Examples: 1.11=1.00; 1.28=1.25; 1.39=1.50; 1.80=1.75; 1.99=2.00	3
Scandinavian rounding 00 ~ 24 → 0; 25 ~ 74 → 50; 75 ~ 99 → 100 Examples: 1.21=1.0; 1.30=1.50; 1.87=2.00	6

Tax system specifications for subtotal and total amounts	
No specifications.	0
Specifies add-on rate tax.	2
Specifies add-in rate tax (VAT).	3

1-9 To control Tax Status print- ing



Selections			
Print taxable amount.			
Print taxable amount and tax amount for Add-in.			
Yes	Yes	0	A
	No	1	
No	Yes	2	
	No	3	

1-10 Printing to read All Preset Data

Operation

Printout

- Printing preset data.

= CA/AMT
TEND

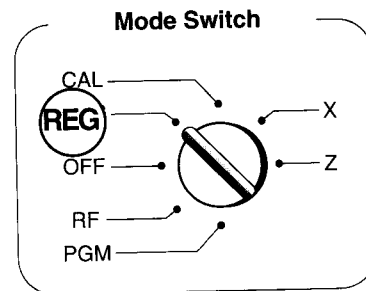
08-01-95		Date
08-06#0038		Time/Consecutive No.
	×	Read Symbol
1.....1.00	1	Dept. No./Unit Price/Tax Status
#041		Normal Dept./Digit Limit/Single Item
2.....2.20	2	
#051		
3.....11.00	#	
#000		
.....	1	Minus/Tax Status
2.5 %		Percent Rate/%+ or %-
#11	1	Percent Key Control/Tax Status
0122...#22		Date/Monetary Mode Control
0522...#1062		Print Control
0622...#0000		General Control
1022...#3		Calculation Control
0326...#002		Tax Control
0125.....		
5.2500 %		Tax Rate 1
5003		Rounding Specifications/ Tax System Specifications
0000		Print Control
0225.....		
10.0000 %		Tax Rate 2
5003		
0000		
08-01-95		

Part-2

2. Various Operations

2-1 Registration using preset price for Departments.

(Programming: See page 13)



Example

Unit Price	\$1.00	\$2.20	\$11.00
Quantity	1	2	4
Depts.	1	2	3
Amount tendered	\$50.00		

Operation

+ 1
- 2
- 2
4 \times 3
SUB TOTAL
5 0 0 0 = CA/AMT TEND

Printout

•1•00 1 Unit Price Programmed to Department 1

•2•20 2 Unit Price Programmed to Department 2

•2•20 2 Repeat

4 \times Multiplication Symbol

•11•00 @ Unit Price Programmed to Department 3

•44•00 3

•49•40 ST

•50•00 CA Cash Amount Tendered

•0•60 CG Change

2-2 Single-Item Sales

(Programming: See page 14)

Example 1:

Status	Single item sale
Unit Price	\$0.50
Quantity	1
Dept.	1

5 0 + 1

•0•50 1	
•0•50 CA	Cash Sales

For this example, Dept. 1 is programmed for a single-item-sale.
(Programming: See page 14.)

Example 2:

Status	Normal	Single item sale
Unit Price	\$1.00	\$0.50
Quantity	1	1
Dept.	2	1

1 0 0 - 2
5 0 + 1
SUB TOTAL
= CA/AMT TEND

•1•00 2	
•0•50 1	
•1•50 CA	Cash Sales

Single-item sale cannot be finalized if an item is registered previously.

2-3 Check sales

Operation

Printout

Example:

Unit Price	\$35.00
Quantity	2
Dept.	4

3 5 0 0 + 4
+ 4
SUB
TOTAL
CHK

•35.00 4
•35.00 4
•70.00 CK — Check Sales

2-4 Split cash/ check sales

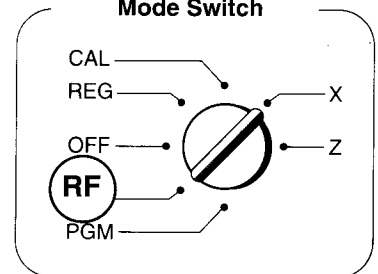
Example:

Unit Price	\$30.00	\$25.00
Quantity	1	1
Depts.	2	3
Cash amount tendered	\$20.00	
Check	\$35.00	

3 0 0 0 - 2
2 5 0 0 × 3
SUB
TOTAL
2 0 0 0 = CA / AMT
TEND
CHK

•30.00 2
•25.00 3
•55.00 ST
•20.00 CA
•35.00 CK

Mode Switch



2-5 Refund

Operation

Printout

Example

Unit Price	\$1.00	\$2.00
Quantity	1	1
Dept.	2	3

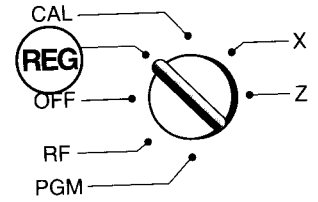
1 0 0 - 2
2 0 0 × 3
SUB
TOTAL
= CA / AMT
TEND

13-55#0074 RF — Refund Mode Indicator
•1.00 2
•2.00 3
•3.00 CA

After you finish RF mode operation, be sure to return the Mode Switch to the REG (register) setting.

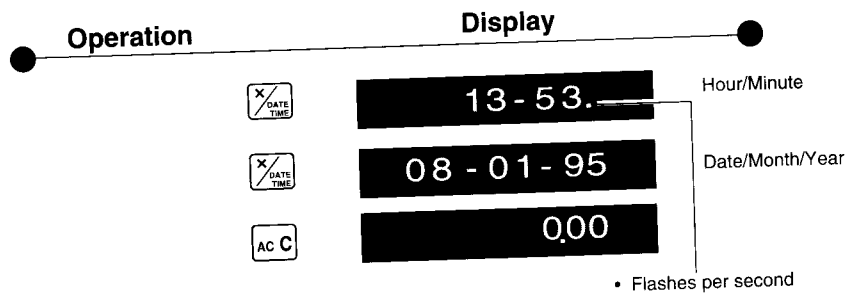
Part-2 CONVENIENT OPERATION

Mode Switch

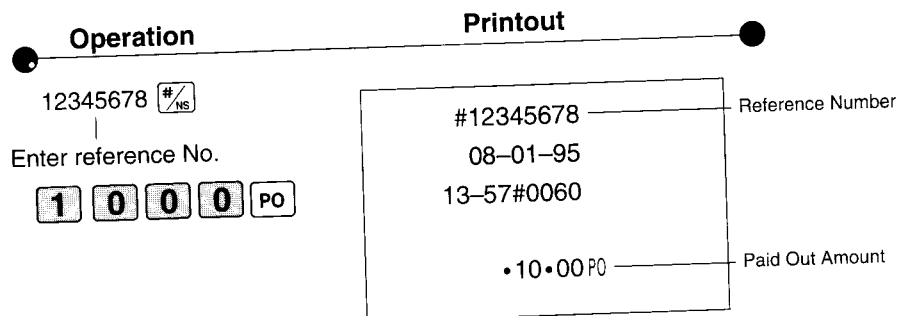


2-6 Other registrations

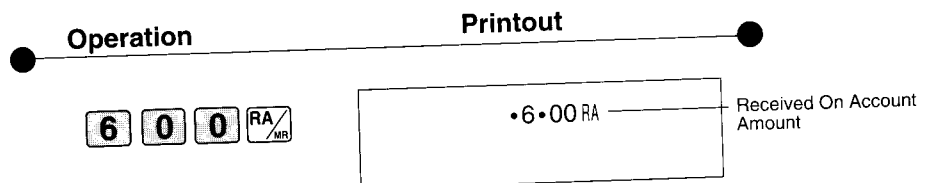
2-6-1 Reading the Time and Date



2-6-2 Paid out from cash in drawer

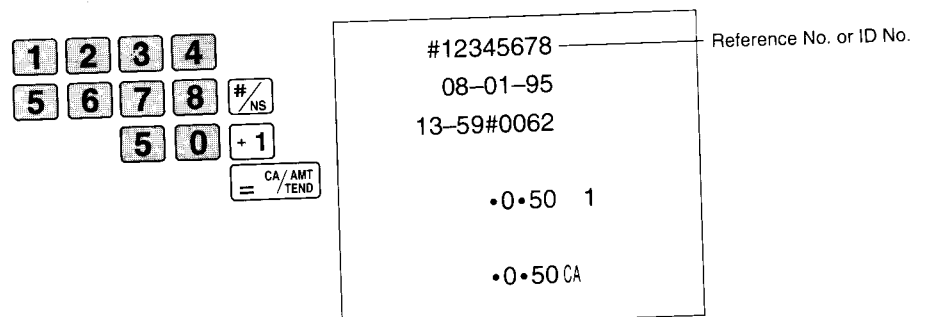


2-6-3 Cash received on account



2-6-4 Registering identification numbers

A reference number or ID number of up to 8 digits can be registered prior to any transaction.



2-6-5 Reduction on subtotal

Operation

Printout

Example:

Amount due reduced by \$0.50.

1 0 0 + 1
2 0 0 + 4
SUB
TOTAL
5 0 -
= CA / AMT
/ TEND

•1.00 1
•2.00 4
-0.50
•2.50 CA

2-6-6 Premium/ Discount

- 2.5% premium/discount (programmed to [%] key) applied to first item.

- 7% premium/discount applied to transaction total.
- For programming the [%] key as percent minus or percent plus, see page 15.
- For programming percent rate, see page 13.

1 0 0 + 1
%
2 0 0 - 2
3 0 0 + 1
SUB
TOTAL
7 %
= CA / AMT
/ TEND

Premium

•1.00 1
2.5 % ——— Premium Rate
•0.03 ——— Premium Amount
•2.00 2
•3.00 1
•6.03 ST ——— Subtotal
7 % ——— Premium Rate
•0.43 ——— Premium Amount
•6.46 CA

Discount

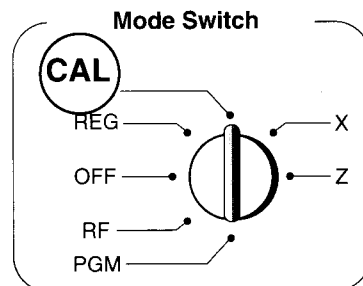
•1.00 1
2.5 % ——— Discount Rate
-0.03 ——— Discount Amount
•2.00 2
•3.00 3
•5.97 ST ——— Subtotal
7 % ——— Discount Rate
-0.42 ——— Discount Amount
•5.55 CA

Part 3

CALCULATOR FUNCTION

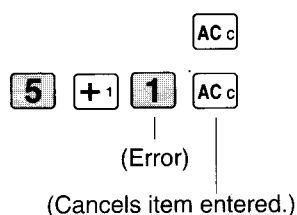
1. Calculator Mode

While registering at REG mode, you can switch to CAL mode and then return to REG mode to resume the registration.

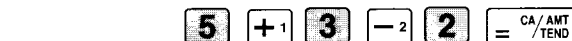


1-1 Calculation examples

5+3-2=



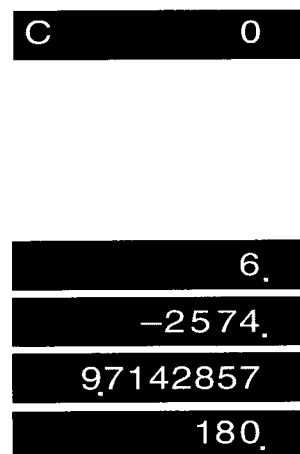
(23-56)×78=



(4×3-6)÷3.5+8=



12% on 1500



1-2 Memory recall

Recalls the current amount onto the display.

- during registration: current subtotal
- registration has been completed: the last amount

On CAL mode

Example:

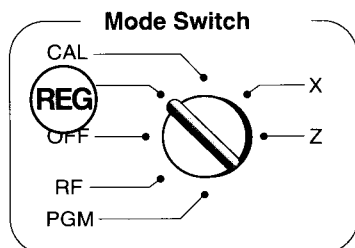
Divide the current subtotal \$30.00 at REG mode by 3 (to divide the bill between 3 people).



Memory recall

On REG mode

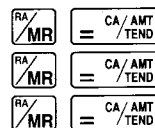
Recalls the current result by pressing $\frac{CA}{AMT} \frac{TEND}{TEND}$ key at CAL mode on the display.



Example:

Recall the current result at CAL mode during registration, and register the cash amount due for each person.

Operation



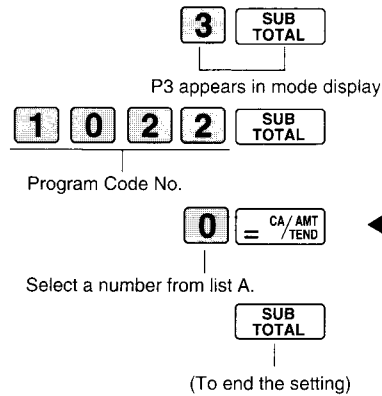
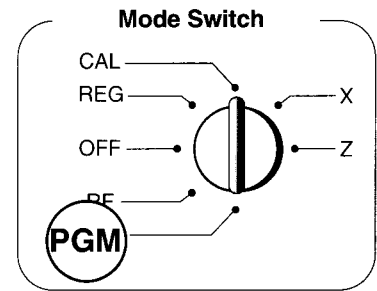
Memory recall

Printout

•10.00 1
•20.00 2

•30.00 ST
•10.00 CA
•10.00 CA
•10.00 CA
•0.00 CG

1-3 Setting for calculator operation



Selections			
Open drawer whenever = CA/AMT / TEND is pressed.*			
Open drawer whenever #/Yes is pressed.			
Print No. of Equal key operations on General Control X and Z reports.			
Yes	No	No	0
		Yes	1
	Yes	No	2
		Yes	3
No	No	No	4
		Yes	5
	Yes	No	6
		Yes	7

A

* Drawer does not open during registration procedures even if you press **= CA/AMT / TEND** by turning the mode switch to CAL position.



USEFUL INFORMATION

1. Troubleshooting

	Symptom/Problem	Most common causes	Solutions
1	E01 appears on the display.	Changing modes without completing transaction or programming.	Return key to where it stops buzzing and press $\left[\begin{smallmatrix} CA/MT \\ /TEND \end{smallmatrix} \right]$.
2	E94 appears on the display.	Printer paper is jammed.	Remove jammed paper. Turn Mode switch to OFF then turn to ON, or Turn power OFF and then turn power ON.
3	No date or time on receipt. Paper is not advancing enough.	Printer is programmed as a journal.	Program printer to print receipts.
4	Key won't turn to Z, X, PGM and RF modes.	Using OP key.	Use the PGM key.
5	Drawer opens up after ringing up only one time.	Department is programmed as a single item dept.	Program the dept. as a normal dept.
6	Not clearing totals at end of day after taking report.	Using X mode to take out reports.	Use Z mode to take out reports.
7	Programming is lost whenever register is unplugged or there is a power outage.	Bad or no batteries.	Put in new batteries.
8	Register is inoperative. Can't get money out of drawer.	No power.	Pull lever underneath register at rear.

2. Specifications

INPUT METHOD

Entry: 10-key system; Buffer memory 6 keys (2-key roll over)
 Display (Digitron): Amount 8 digits (zero suppression); Department No.; No. of repeats; TOTAL; CHANGE

PRINTER

Receipt: 12 digits (Amount 10 digits, Symbol 2 digits)
 (or journal) Automatic paper roll winding (journal)
 Paper roll: 58 mm \times 80 mm \varnothing (Max.)

CALCULATIONS

Entry 8 digits; Registration 7 digits; Total 8 digits

CALCULATOR FUNCTION

8 digits; Arithmetic calculations; Percent calculations

Memory protection batteries:

The effective service life of the memory protection batteries (3 UM-3, R6P (SUM-3) or LR6 (AM-3) type batteries) is approximately one year from installation into the machine.

Power source/Power consumption: See the rating plate.

Operating temperature: 0°C to 40°C (32°F to 104°F)

Humidity: 10 to 90%

Dimensions/Weight: 219 mm(H) \times 330 mm(W) \times 360 mm(D) with S drawer
 4.0 kg with S drawer
 234 mm(H) \times 400 mm(W) \times 450 mm(D) with M drawer
 7.5 kg with M drawer

Specifications and design are subject to change without notice.

– This equipment complies with the requirements of CISPR Pub. 14 –